

FIG. 1 is a block diagram of a radio frequency (RF) system 100. The system 100 includes an antenna 110, a radio frequency (RF) multiplexer (MUX) 106, a high power amplifier (HPA) 104, a low noise amplifier (LNA) 108, a local oscillator (LO) 102, and a cable 112. The antenna 110 is connected to the RF MUX 106. The RF MUX 106 is connected to the HPA 104 and the LNA 108. The HPA 104 is connected to the LO 102. The LNA 108 is connected to the LO 102. The LO 102 is connected to the RF MUX 106. The RF MUX 106 is connected to the cable 112. The cable 112 is connected to the IF IN/OUT port. The system 100 is configured to receive and transmit RF signals.

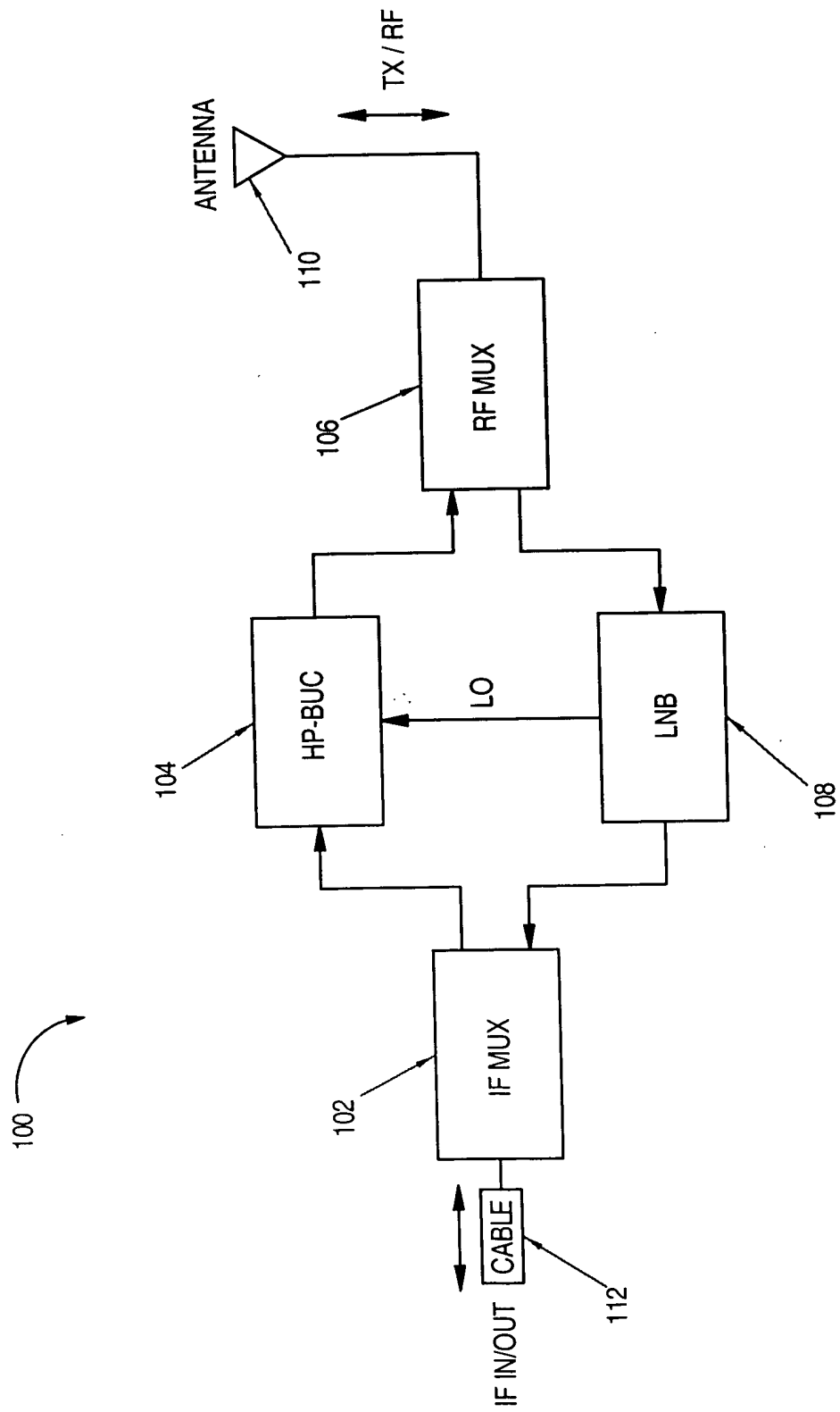


FIG 1

200 202 204 206 208 210 212

200

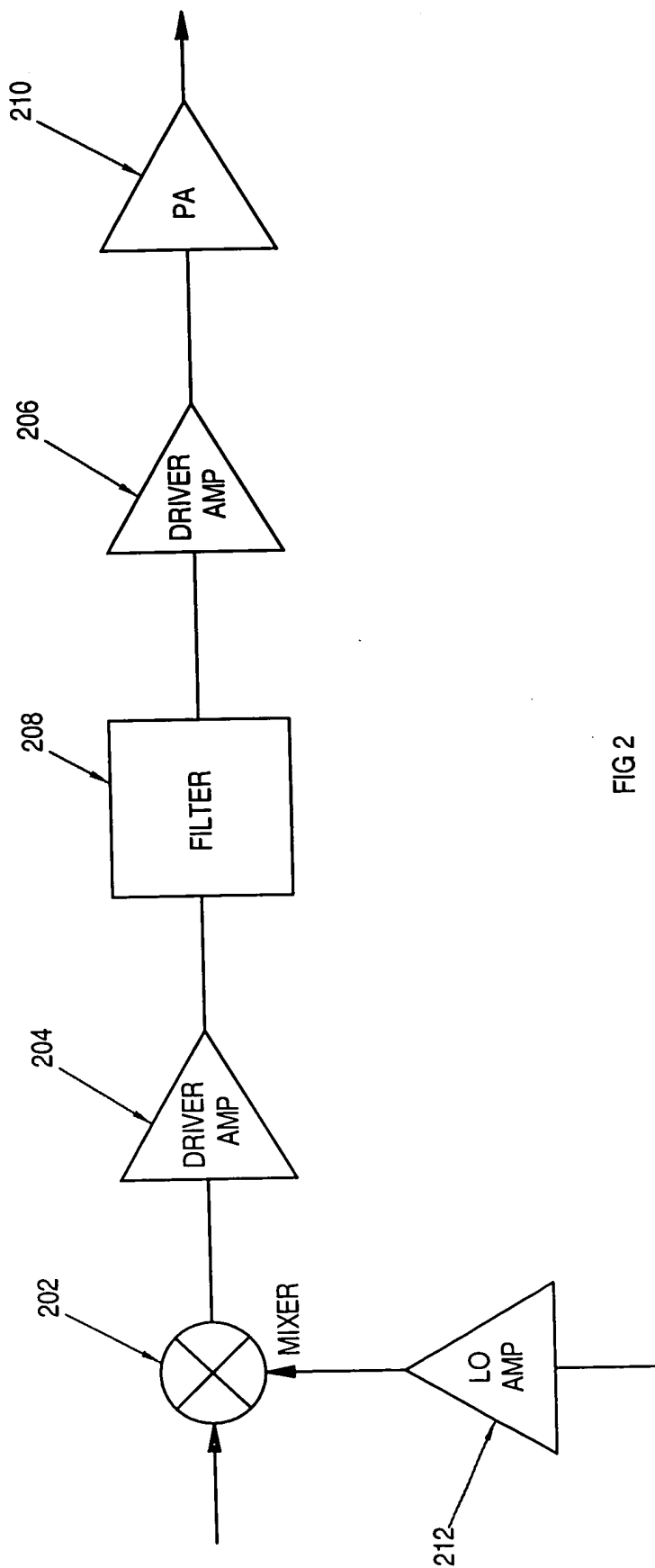
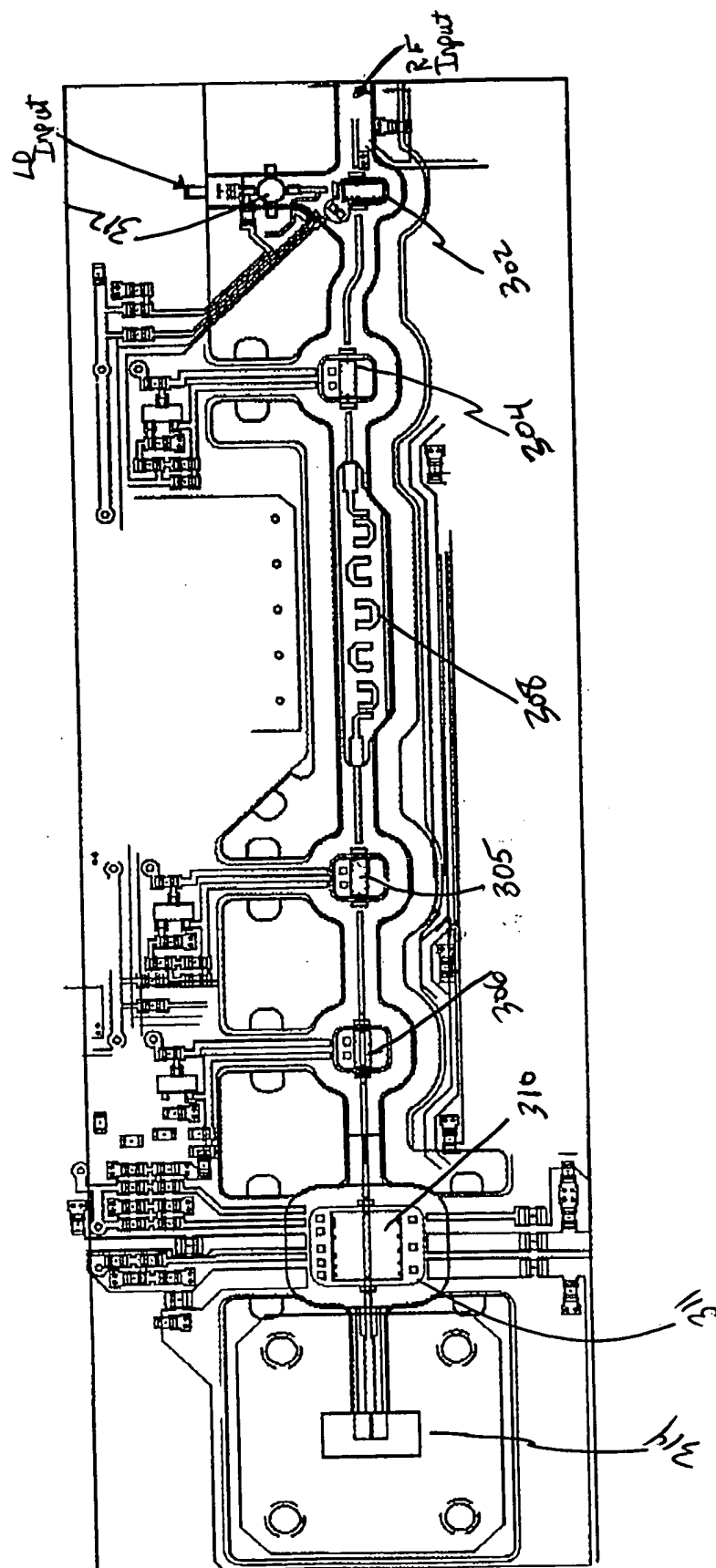


FIG 2



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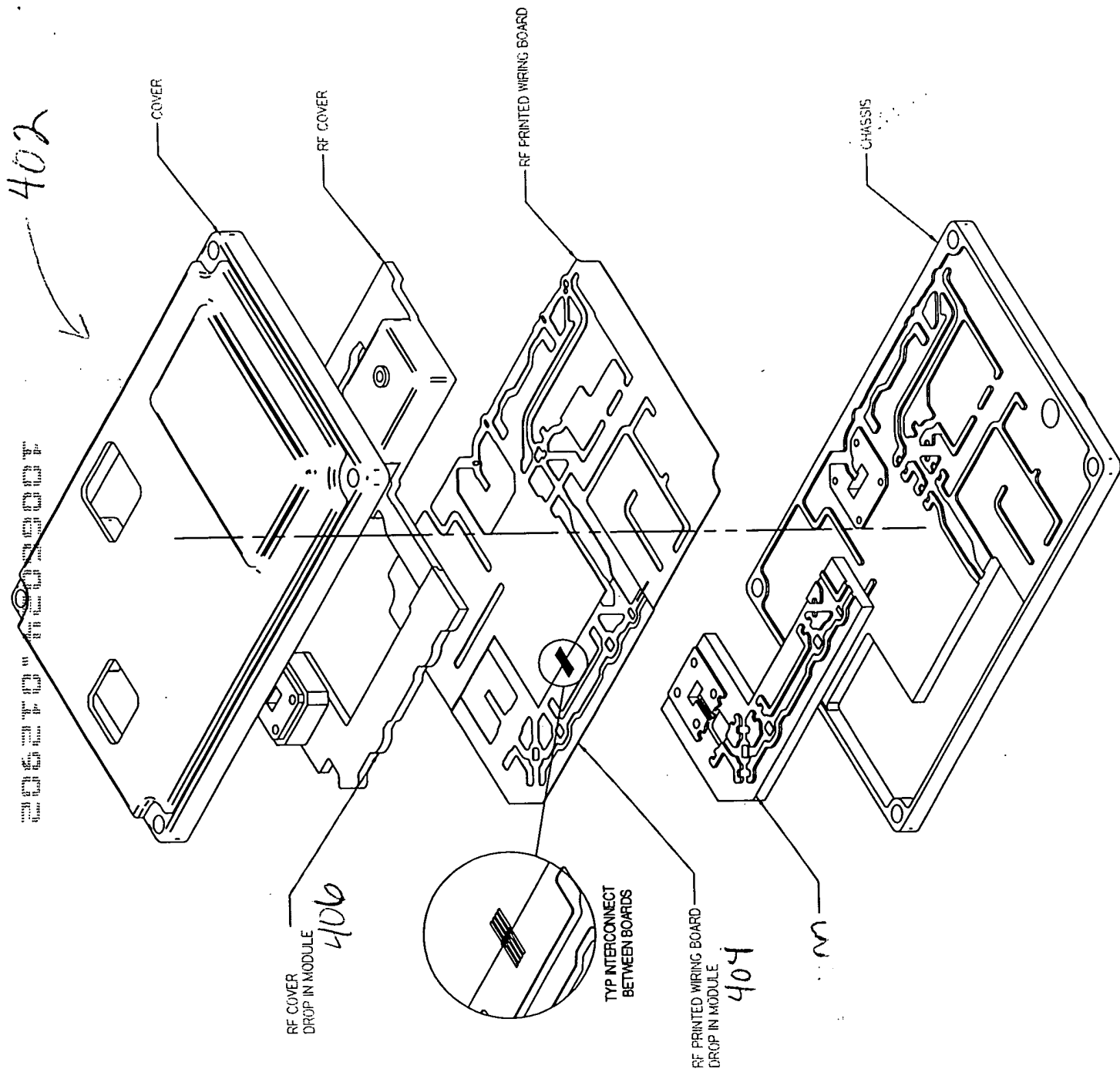


FIG. 4B

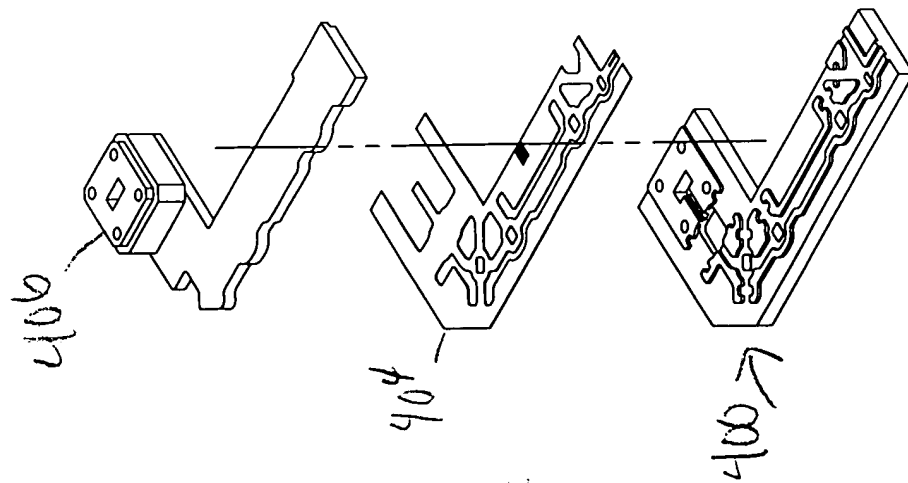


FIG. 4A

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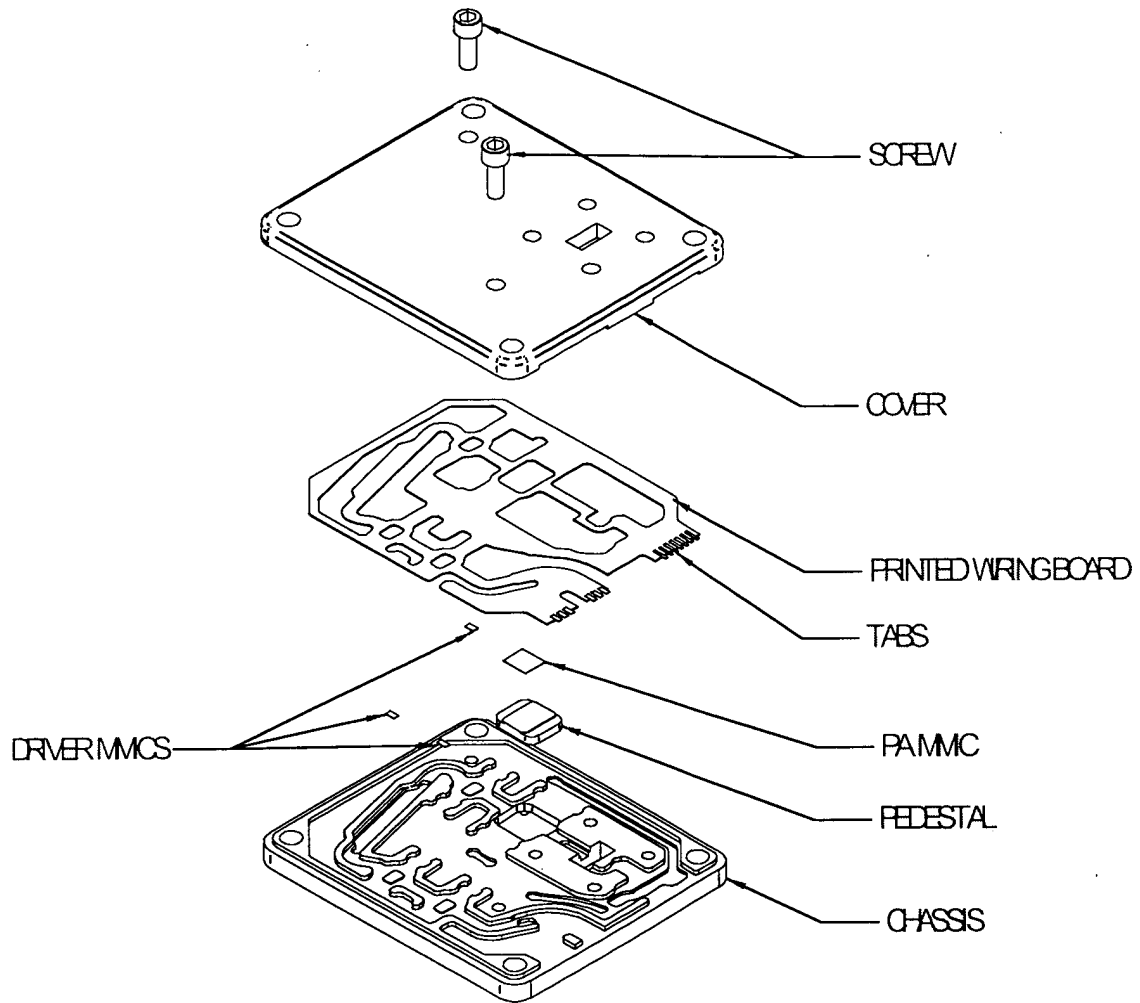


FIG 5a

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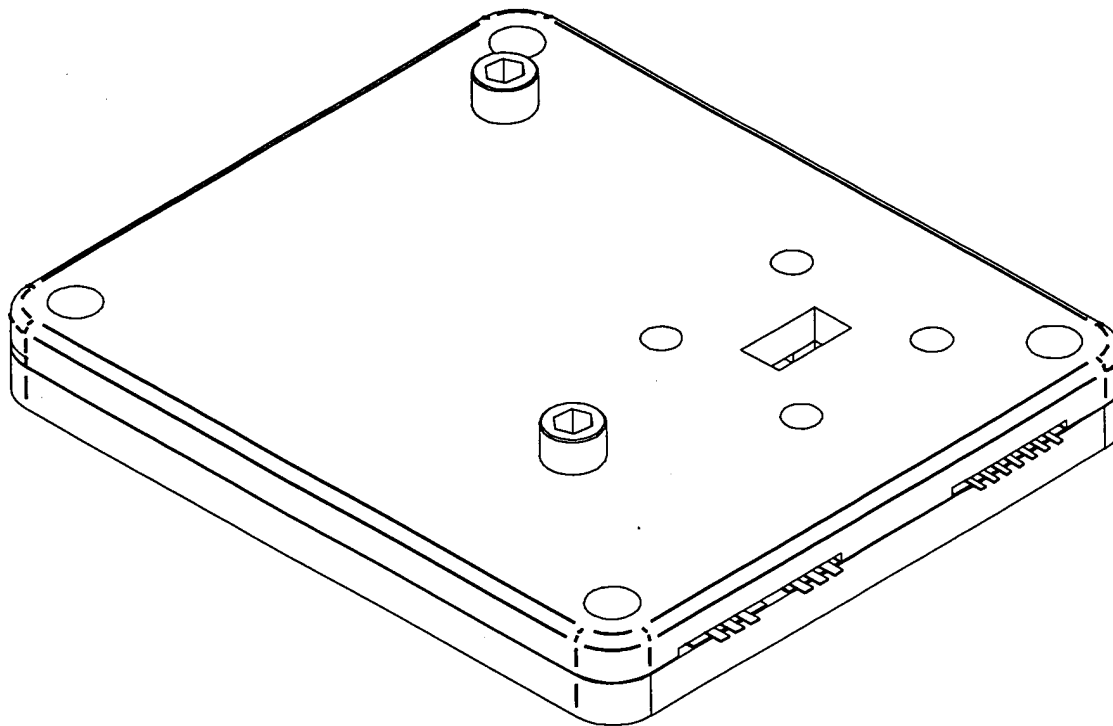


FIG 5b

4. 3. 2. 1. 0. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.